\ 0 \ , \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	· Si
OCT . 2 0 200	1 20
~o.	Please type a plus sign (+) inside this box -> +

PTO/SB/08A (08-00)
Approved for use through 10/31/2002, OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE of collection of information unless it contributes the contribute of the contr

U.S. Patent and Tradamark Office: U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Tradamark Office: U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Tradamark Office: U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Tradamark Office: U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Tradamark Office: U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Tradamark Office: U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Tradamark Office: U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Tradamark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of Sheet

C mplete if Known				
Application Number	4 0/222,562			
Filing Date	08/16/2002			
First Named Inventor	Bradbury et al.			
Group Art Unit	3746 3745			
Examiner Name	Not yet assigned	_		
Attorney Docket Number	861975/0207			

	U.S. PATENT DOCUMENTS								
Examiner Initials	Cite No.1	U.S. Patent Number	Cocument Kind Code ² (# known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
Œ		2,609,055		Monroe	09/02/52				
Re		2.811.30	3.	Ault et al.	10/29/57				
R		2.974.72		Culp	03/14/61				
na		3.168.23		Valdi	02/02/65				
Re		3.169.69	1	Borchers	02/16/65				
R		4.046.48	9	Fairchild et al	09/06/77				
P		4,130,77		Wrobel	12/19/78	174			
R		4.360.75		Amold, Jr. et al.	11/23/82				
(4)		4.413.79	5	Bousmet	11/08/83				
19		4.431.37	5	Lubenstein et al	02/14/84				
6		4.474.53	1	Thode	10/02/84				
742		4.569.63		Gray III	02/11/86				
16		4.579.51		Christensen-Dalsgaard	04/01/86				
19		4,656,55	3	Brown	04/07/87				
09		4.830.574		Wainauski et al.	05/16/89				
KE		4,840,54		Sakane et al.	06/20/89				
19		4.844.69	1 1	Johansen	07/04/89				
(B		4.911.61		Rodde et al.	03/27/90				
THE .		4,941,80	3	Wainauski et al,	07/17/90				
re.		4,971,520	0	Van Houten	11/20/90				

				FORE	IGN PATENT DOCUMEN'	TS		
		F	oreign Patent Do	cument	Name of Patentee or	Date of Publication of	Pages, Columns, Lines, Where Relevant	1
Examiner Initials	Cite No. ¹	Office ³	Number ⁴	Kind Code ^a (if known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	T
		 						T
		 				† · · · · · · · · · · · · · · · · · · ·		7
						 		T
		 						T
		 						1
		 				 		1
		 				 		_
		 				 		+

			_
Examiner Signature	Date Considered	21 June 2004)

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique ditation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WiPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WiPO Standard ST, 16 th possible. Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

OCT 2 0 2003 2

PTC/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE to a collection of information unless it contains a valid QMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE

U.S. Fateria and tracemark Office: U.S. Pateria and tracemark Offi

STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 3

Complete if Known					
Application Number	10/222,562				
Filing Date	08/16/2002				
First Named Inventor	Bradbury et al.				
Group Art Unit	3746 3745				
Examiner Name	Not yet assigned				
Attorney Docket Number	861975/0207				

U.S. PATENT DOCUMENTS							
xaminer nitials	Cite No.1	Mumber	ment Code ²	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
12		5,127,801		Mortensen	07/07/92		
12		5.181.830		Chou	01/26/93		
12		5.244.347		Gallivan et al	09/14/93		
19		5,273,400		Amr	11/28/93		
19		5.320.493		Shih et al.	06/14/94		
12		5.326.225		Gallivan et al	07/05/94		
102		5,433,586	Ш	Cole	07/18/95		
19		5.513.951		Komoda et al.	05/07/96		
14		5.616.004		Alizadeh	04/01/97		
19		5,659,217		Petersen	08/19/97		
re		5.701.045	$\perp \perp$	Yokozawa et al.	12/23/97		
P		5.730.583	$\perp \perp$	Alizadeh	03/24/98		
R		5.755.557		Alizadeh	05/26/98		
19		5,930,112	igspace	Babinski et al.	07/77/99		
19		5,952,798	\sqcup	lones et al.	09/14/99		
19		5,929,611	\bot	Scott et al.	07/27/99		
('			\bot				
			\perp	· · · · · · · · · · · · · · · · · · ·			
			1				
- 1	- 1		1 1		1		

		-	-	FORE	IGN PATENT DOCUMENT	TS	4	
O'I		F	oreign Patent Do		Name of Patentee or	Date of Publication of	Pages, Columns, Lines, Where Relevant	
Examiner Initials	Cite No. ¹	Office ³	Number ⁴	Kind Code ⁸ (if known)	Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear	ין
								╁
								+-
		├						╁
					 	 		十
						1		
								L
								╀
								4-
	_							

Examiner Date	
Signature Considered at Via	Ture 2004

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Petent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-latter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Please how

War a buy	us sign (+) inside thi	a box —	no persons are required	U. S. Patent and Tradent to respond to a collection of informalia	PTO/SB/08B (08-00) yed for use through 10/31/2002. OMB 0651-0031 nark Office: U.S. DEPARTMENT OF COMMERCE on unless it contains a valid OMB control number.
the Paper	WOR REGULATIVE			C	mplete if Kn wn
Substitu	te for form 1449B/P	то		Application Number	1 0/22 2,562
INE	DMATIO	N D	ISCLOSUR	E Filing Date	08/16/2002
HALL		DV	ADDI ICANI	First Named Inventor	Bradbury et al.
STA	TEMENI	BI	APPLICAN'	Group Art Unit	3746 3745
	6 mon	u chaal	s as necessary)	Examiner Name	Not yet assigned
	(nza az man			Attorney Docket Number	861975/0207
Sheet	3	of	1 3		

		OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the article (when appropriate).	72
Examiner nitials*	Çite No.'	Item (book, magazine, journal, serial, symbosaut, country where published.	-
RG		Casey, A Computational Geometry for the Blades and Internal Flow Channels of Centrifugal Compressors, ASME 82-GT-155 (undated)	
na		Forrest, Interactive Interpolation and approximation by Bezier polynomials, The Computer Journal, Vol. 15, No. 1, p.71-79 (undated - received by Journal May 1971)	
19		Abbott and Von Doenhoff, Theory of Wing Sections, 1949, p. 111-13	
re	 	Selby, Standard Mathematical Tables, 1974, p. 627	
res		Martensen, The Calculation of the Pressure Distribution on a Cascade of Thick Airfoils by Means of Fredholm Integral Equations of the Second Kind, NASA TT F-702, July 1971	_
			1
Ÿ	1		1
	\dagger	·	\perp
	+		
	\dagger		
			+
			\bot

Examiner	(1000)	Date C nsidered	21 Ture 2004
Signature	Constitution		

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.